

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1659.0930000	APPLICATION NO. 09/511,991
		APPLICANT Taylor et al.	FILING DATE February 24, 2000
		O I P E J C 6 8 T E	
		NOV 06 2000 PATENT & TRADEMARK OFFICE	
		GROUP 2736	2632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA1	2,716,236	08/1955	Reinish et al.	343	13	
AL	AB1	3,068,473	12/1962	Muth	343	13	
AL	AC1	3,213,449	10/1965	Kobayashi et al.	343	13	R
AL	AD1	3,376,504	04/1968	Chick	324	68	RC
AL	AE1	3,396,393	08/1968	Wagner	343	14	E
AL	AF1	3,461,452	08/1969	Welter	343	12A	IVE
AL	AG1	3,614,226	10/1971	Vergoz	356	5	ED
AL	AH1	3,659,292	04/1972	Low et al.	343	6.5	
AL	AI1	3,714,650	01/1973	Fuller et al.	343	6.5 C	
AL	AJ1	3,725,920	04/1973	Küpfer et al.	343	6.5 R	
AL	AK1	3,829,674	08/1974	Joseph	702	151	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL	AL1	DE 197 55 237 A1	07/1999	DE	G04C	11/02	No, see AT1 for abstract
AL	AM1	EP 0 676 650 A2	10/1995	EP	G01S	13/76	Yes (See AN1)
AL	AN1	EP 0 676 650 A2	10/1995	EP (APPLICATED)	G01S	13/76	Yes No
AL	A01	WO 91/13370	09/1991	PCT	G01S	13/04	Yes No
AL	AP1	WO 96/41432	12/1996	PCT	H04B	14/02	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AL	AR	1	Anderson, F. et al., "Ultra-wideband beamforming in sparse arrays," IEE Proceedings-H, Vol. 138, No. 4, August 1991, 8 pages.
AL	AS	1	Skolnik, M.I., <i>Introduction to Radar Systems</i> , McGraw-Hill, 1980, pp. 553-560.
AL	AT	1	English-language Abstract and Patent Family Information for DE 19755237, as downloaded from Derwent Database, 2 pages.

EXAMINER	AL	DATE CONSIDERED
----------	----	-----------------

9/15/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1659.0930000	APPLICATION NO. 09/511,991
		APPLICANT Taylor et al.	NOV 06 2000 PATENT & TRADEMARK OFFICE GROUP 2736 2637
		FILING DATE February 24, 2000	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA2	4,083,049	04/1978	Mattern et al.	343	7.7	
AL	AB2	4,283,726	08/1981	Spence et al.	343	12 D	
AL	AC2	4,315,260	02/1982	Küpfer	343	75	
AL	AD2	4,596,023	06/1986	Driver et al.	375	75	NOV 1 8
AL	AE2	4,622,540	11/1986	Guscott et al.	340	531	
AL	AF2	4,641,317	02/1987	Fullerton	375	1A	
AL	AG2	4,704,574	11/1987	Nossen	324	83 d	2000
AL	AH2	4,727,593	02/1988	Goldstein	455	65	
AL	AI2	4,728,959	03/1988	Maloney et al.	342	45	
AL	AJ2	4,743,906	05/1988	Fullerton	342	27	
AL	AK2	4,813,057	03/1989	Fullerton	375	37	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL	AL2	WO 99/49333	09/1999	PCT	G01S	13/06	Yes
	AM2						No
	AN2						Yes
	A02						No
	AP2						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	
	AS	2	
	AT	2	

EXAMINER Anh La DATE CONSIDERED 9/15/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1659.0930000	APPLICATION NO. 09/511,991
		APPLICANT Taylor et al.	NOV 06 2000 PATENT & TRADEMARK OFFICE
		FILING DATE February 24, 2000	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA3	4,907,001	03/1990	Harmuth	342	159	
AL	AB3	4,916,429	04/1990	Hicks et al.	340	436	
AL	AC3	4,916,455	04/1990	Bent et al.	342	457	
AL	AD3	4,979,186	12/1990	Fullerton	375	25	MOV
	AE3	-----	-----	-----	-----	-----	RECEIVED
AL	AF3	5,057,846	10/1991	Harmuth	342	204	8
AL	AG3	5,127,042	06/1992	Gillig et al.	379	69	2000
AL	AH3	5,134,408	07/1992	Harmuth	342	200	
AL	AI3	5,148,174	09/1992	Harmuth	342	201	
AL	AJ3	5,216,429	06/1993	Nakagawa et al.	342	45	
	AK3	-----	-----	-----	-----	-----	63

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	-----	-----	-----	-----	-----	Yes No
	AM3	-----	-----	-----	-----	-----	Yes No
	AN3	-----	-----	-----	-----	-----	Yes No
	AO3	-----	-----	-----	-----	-----	Yes No
	AP3	-----	-----	-----	-----	-----	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	
	AS	3	
	AT	3	

EXAMINER Anh La DATE CONSIDERED 9/15/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO 1659.0930000	APPLICATION NO. 09/511,991
		APPLICANT Taylor et al.	NOV 06 2000 PATENT & TRADEMARK OFFICE
		FILING DATE February 24, 2000	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA4	5,265,121	11/1993	Stewart	375	99	
	AB4	-----	-----	-----	-----	-----	
AL	AC4	5,361,070	11/1994	McEwan	342	ED	
AL	AD4	5,363,108	11/1994	Fullerton	342	EP	
AL	AE4	5,457,394	10/1995	McEwan	324	642	NOV 1 2000
AL	AF4	5,465,094	11/1995	McEwan	342	28	RECEIVED
AL	AG4	5,510,800	04/1996	McEwan	342	387	
AL	AH4	5,512,834	04/1996	McEwan	324	642	
AL	AI4	5,519,400	05/1996	McEwan	342	28	
AL	AJ4	5,521,600	05/1996	McEwan	342	273	
AL	AK4	5,573,012	11/1996	McEwan	128	782	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	4	
	AS	4	
	AT	4	

EXAMINER Anh La DATE CONSIDERED 3/15/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>			ATTY. DOCKET NO. 1659.0930000	APPLICATION NO. 09/511,991
			APPLICANT Taylor et al.	NOV 06 2000 U.S. PATENT & TRADEMARK OFFICE
			FILING DATE February 24, 2000	GROUP K2736 2632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA5	5,576,627	11/1996	McEwan	324	683	
AL	AB5	5,589,838	12/1996	McEwan	342	382	NOV 8 2000
AL	AC5	5,661,490	08/1997	McEwan	342	382	RECEIVED
AL	AD5	5,677,927	10/1997	Fullerton et al.	375	200	
AL	AE5	5,687,169	11/1997	Fullerton	370	324	NOV 8 2000
AL	AF5	5,748,891	05/1998	Fleming et al.	375	150	RECEIVED
AL	AG5	5,757,320	05/1998	McEwan	342	382	
AL	AH5	5,764,696	06/1998	Barnes et al.	375	232	
AL	AI5	5,766,208	06/1998	McEwan	600	595	10/10/00
AL	AJ5	5,767,790	06/1998	Jovellana	340	870.02	
AL	AK5	5,767,953	06/1998	McEwan	356	5.01	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5						Yes No
	AM5						Yes No
	AN5						Yes No
	AO5						Yes No
	AP5						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	
	AS	5	
	AT	5	

EXAMINER	Anh La	DATE CONSIDERED	9/15/01
----------	--------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1659.0930000		APPLICATION NO. 09/511,991	
		APPLICANT Taylor et al.		NOV 06 2000 U.S. PATENT & TRADEMARK OFFICE	
		FILING DATE February 24, 2000		GROUP 2736 2632	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA6	5,774,091	06/1998	McEwan	342	387	
AL	AB6	5,809,424	09/1998	Eizenhoefer	455	456	
AL	AC6	5,812,081	09/1998	Fullerton	342	21	
AL	AD6	5,832,035	11/1998	Fullerton	375	210	
AL	AE6	5,859,612	01/1999	Gilhousen	342	457	
AL	AF6	5,912,644	06/1999	Wang	342	457	
AL	AG6	5,917,433	06/1999	Keillor et al.	340	989	
AL	AH6	5,920,278	07/1999	Tyler et al.	342	33	
AL	AI6	5,952,956	09/1999	Fullerton	342	27	
AL	AJ6	5,959,580	09/1999	Maloney et al.	342	457	
AC	AK6	5,960,031	09/1999	Fullerton et al.	375	200	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6						Yes No
	AM6						Yes No
	AN6						Yes No
	AO6						Yes No
	AP6						RECEIVED NOV 8 2000 MAIL ROOM

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	
	AS	6	
	AT	6	

EXAMINER	Anh Ha	DATE CONSIDERED	9/15/01
----------	--------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT			ATTY. DOCKET NO 1659.0930000	APPLICATION NO. 09/511,991
			APPLICANT Taylor et al.	NOV 06 2000 U.S. PATENT & TRADEMARK OFFICE
			FILING DATE February 24, 2000	GROUP 2736 2632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AL	AA7	5,963,581	10/1999	Fullerton et al.	375	200	
AL	AB7	5,969,663	10/1999	Fullerton et al.	342	25	
AL	AC7	5,995,534	11/1999	Fullerton et al.	375	200	
AL	AD7	6,026,125	02/2000	Lerrick, Jr. et al.	375	295	NOV
AL	AE7	6,031,862	02/2000	Fullerton et al.	375	200	8
AL	AF7	6,040,898	03/2000	Mrosik et al.	356	5409	RECEIVED
AG7							
AH7							
AI7							
AJ7							
AK7							

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL7						Yes No
	AM7						Yes No
	AN7						Yes No
	AO7						Yes No
	AP7						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	7	
	AS	7	
	AT	7	

EXAMINER	Anh La	DATE CONSIDERED	9/15/01
----------	--------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.